

UPSEE 2019

PAPER-M ARCH CODE: AA*

ANSWER KEY, Examination Date: 21-04-2019

1	D	26	C	51	B	76	C
2	B	27	C	52	A	77	C
3	D	28	C	53	C	78	C
4	B	29	B	54	D	79	A
5	A	30	D	55	B	80	B
6	A	31	B	56	A	81	D
7	B	32	A	57	A	82	D
8	C	33	C	58	B	83	D
9	A	34	D	59	C	84	C
10	A	35	C	60	B	85	B
11	D	36	A	61	C	86	C
12	A	37	C	62	C	87	A
13	B	38	A	63	A	88	D
14	D	39	C	64	B	89	B
15	C	40	A	65	C	90	A
16	A	41	A	66	A	91	C
17	B	42	C	67	B	92	B
18	B	43	C	68	C	93	D
19	D	44	A	69	A	94	A
20	B	45	B	70	A	95	B
21	A	46	A	71	B	96	B
22	B	47	C	72	B	97	A
23	C	48	C	73	D	98	C
24	A	49	C	74	C	99	D
25	C	50	C	75	A	100	A

Note: In case of any grievance, it must be reported at upseegrievance@aktu.ac.in along with Students Roll No. with Paper Code, Question Booklet Code, Question No. and suggested answer with supporting documents on or before 03rd May 2019.

*प्रश्न पुस्तिका क्रमांक **AA** का प्रश्नपत्र एवं कुंजी प्रकाशित की जा रही है। प्रश्न पुस्तिका क्रमांक **BB, CC** तथा **DD** में प्रश्नों एवं उनके विकल्पों का क्रम परिवर्तित है कृपया तदनुसार उत्तर मिलान करें।



M. ARCH

Question Booklet Sr. No.

Q. Booklet Code

AA

Roll No.

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OMR Answer Sheet No.

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Declaration :

I have read and understood the instructions given on page No. 1

Seal of Superintendent of Examination Centre

Signature of Candidate
(as signed in application)

Signature of the Invigilator

Name of Candidate :

To be copied by the candidate in your own handwriting in the space given below for this purpose is compulsory.
"You will know you are in the right profession when : you wake anxious to go to work, you want to do your best daily, and you know your work is important."

* After cutting half upper part of this page, invigilator preserve it along with student's OMR sheet.



No. of Pages in Booklet including title

12

Time 2 Hours

Marks
400

No. of Questions in Booklet

100

M. ARCH

Question Booklet Sr. No.

Roll No.

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Signature of the Invigilator

Q. Booklet Code

Name of Candidate :

AA

INSTRUCTIONS TO CANDIDATE

1. Use BLUE or BLACK BALL POINT PEN only for all entries and for filling the bubbles in the OMR Answer Sheet.
2. Before opening the SECURITY SEAL of the question booklet, write your Name, Roll Number (In figures), and OMR Answer-sheet Number in the space provided at the top of the Question Booklet. Non-compliance of these instructions would mean that the Answer Sheet can not be evaluated leading the disqualification of the candidate.
3. Each question carries FOUR marks. There will be negative marking on wrong answer. FOUR marks will be awarded for each correct answer and ONE mark will be deducted for each wrong answer. No marks will be deducted/awarded for unattempted questions.
4. Each multiple choice question has only one correct answer. More than one answer indicated against a question will be treated as incorrect answer.
5. Use of log table, mobile phones, any electronic gadget and slide rule etc. is strictly prohibited. Non-programmable calculator is permitted.
6. Candidate will be allowed to leave the examination hall at the end of examination time period only.
7. If a candidate is found in possession of books or any other printed or written material from which he/she might derive assistance, he/she is liable to be treated as disqualified. Similarly, if a candidate is found giving or obtaining (or attempting to give or obtain) assistance from any source, he/she is liable to be disqualified.
8. OMR sheet is placed within this paper and can be taken out from this paper but seal of paper must be opened only at the start of paper.

M. ARCH

M. Arch. : Q. 1 to Q. 100

001. Concept of Dry Gardens is associated with:

- (A) Mughal Architecture
- (B) Egyptian Architecture
- (C) Chinese Architecture
- (D) Japanese Architecture

002. Map is an

- (A) Isometric projection
- (B) Orthographic projection
- (C) Axonometric projection
- (D) Oblique projection

003. 'Indore slum networking program' has been planned by

- (A) B.V Doshi
- (B) Daulat Mukharjee
- (C) Anil Laul
- (D) Himanshu Parikh

004. 'Volume Zero' is a film based on the works of

- (A) Peter Eisenman
- (B) Charles Correa
- (C) Daniel Libeskind
- (D) Anant Raje

- 005.** Unit of thermal conductivity of a material is
 (A) $W/(mK)$ (B) $W/(m^2K)$
 (C) mK/W (D) m^2K/W
- 006.** As per space standards for barrier free built environment, the minimum turning radius for a wheel chair in mm is
 (A) 900 (B) 1200
 (C) 1500 (D) 1800
- 007.** Shodhan House at Ahmadabad was designed by
 (A) Anant Raje
 (B) Le Corbusier
 (C) Louis I Kahn
 (D) B. V. Doshi
- 008.** Low – emissivity coating on a glazing unit
 (A) Increases solar heat gain coefficient
 (B) Increases visible light transmission
 (C) Reduces solar heat gain coefficient
 (D) Increases solar heat gain coefficient and visible light transmission
- 009.** Hoop and Meridional forces are associated with
 (A) Dome
 (B) Truss
 (C) Folded plates
 (D) Space frame
- 010.** Dancing house Pargue is associated with
 (A) Frank Gehry
 (B) Frank Lloyd Wright
 (C) Mies van der Rohe
 (D) Adolf Loos
- 011.** Damage of foundation due to ‘soil liquefaction’ is related to
 (A) Cyclones (B) Landslides
 (C) Floods (D) Earthquakes
- 012.** Walls with high thermal inertia are suitable in which type of climate
 (A) Hot Dry (B) Hot Humid
 (C) Temperate (D) Cold
- 013.** ‘Demolition Contract’ for a building is awarded to a
 (A) Lowest Bidder
 (B) Highest Bidder
 (C) Second lowest Bidder
 (D) Second highest Bidder
- 014.** The fundamental right pertaining to property ownership in India does not embress
 (A) Sell, lease of donate
 (B) Mortgage
 (C) Grant agreement
 (D) Change in use
- 015.** Baluster is a term associated with
 (A) Door (B) Dome
 (C) Staircase (D) Arch

- 016.** Bracket is a term associated with
(A) Cornice (B) Dome
(C) Arch (D) Lintel
- 017.** A colours combination forming an equilateral triangle in a colour wheel is called
(A) Analogous Scheme
(B) Triad Scheme
(C) Split complementary scheme
(D) Double complementary schemes
- 018.** Invert level of a pipe at given cross section refers to the
(A) Highest point of the internal surface
(B) Lowest point of the internal surface
(C) Highest point of the external surface
(D) Lowest point of the external surface
- 019.** Pisa Cathedral Italy is an example of
(A) Gothic architecture
(B) Egyptian architecture
(C) Byzantine Architecture
(D) Romanesque Architecture
- 020.** A 6 cm line on a drawing sheet in 1:300 scale represents an actual dimension of
(A) 1800 mm (B) 18.0 m
(C) 50.0 cm (D) 5.0 m
- 021.** 'Rhythm' is a term related to
(A) Flow (B) Focus
(C) Contrast (D) Balance
- 022.** Room size of 8 m × 13 m is in
(A) Root two Ratio
(B) Golden Ratio
(C) Root three Ratio
(D) Hindu Ratio
- 023.** Concentric contour lines represents
(A) Hill (B) Valley
(C) Hill or valley (D) Ridge
- 024.** Plane table survey includes use of
(A) Alidade (B) Theodolite
(C) Dumpy level (D) None of above
- 025.** Marble is a type of
(A) Igneous rock
(B) Sedimentary rock
(C) Metamorphic rock
(D) Basalt
- 026.** Evaporative cooling does NOT work in
(A) Low Relative Humidity
(B) Low Temperature
(C) High Relative Humidity
(D) High Temperature
- 027.** Flying buttresses were used in
(A) Egyptian Architecture
(B) Greek Architecture
(C) Gothic Architecture
(D) None of the above

- 028.** Vidyadhar Nagar was planned by
(A) H.K.Mewada
(B) Vidyadhar Bhattacharya
(C) B.V.Doshi
(D) Charles Correa
- 029.** Mahoney's tables are used for
(A) Rental value calculation of property
(B) Climate based design
(C) Steel structure section design
(D) Depreciation assessment of machinery
- 030.** Architect Walter Gropius was associated with
(A) Interbau
(B) Art Deco
(C) Chicago school
(D) Bauhaus
- 031.** Flow of water in a bib-cock would increase if
(A) Height of the overhead tank is decreased
(B) The number of elbows and Ts in the pipe length decreased
(C) The number of elbows and Ts in the pipe length increased
(D) None of the above
- 032.** The plan of 'Pink City' Jaipur is
(A) Grid-Iron (B) Organic
(C) Radial (D) Elliptical
- 033.** French colonial style planning and architecture is seen in
(A) New Delhi (B) Goa
(C) Pondicherry (D) Andaman islands
- 034.** Psychrometric chart is used for
(A) Electrical circuit Design
(B) Structural Design
(C) Water supply Piping Design
(D) HVAC Design
- 035.** Reverberation Time of an auditorium is affected by
(A) Occupancy
(B) Interior Surface area
(C) Both A & B
(D) None of the above
- 036.** In Project Management, CPM network time is
(A) Deterministic
(B) Optimistic
(C) Probabilistic
(D) Pessimistic
- 037.** In expansive soils the following foundation is used
(A) Isolated footing
(B) Strip footings
(C) Pile
(D) Combined footings
- 038.** In a cantilever RCC slab, the main reinforcement is at
(A) Top
(B) Bottom
(C) Middle
(D) The position of the reinforcement is irrelevant

- 039.** The buildable area available on a plot of one hectare with FAR of 2.25 is
 (A) 15500 sqm (B) 20500 sqm
 (C) 22500 sqm (D) 25500 sqm
- 040.** Minimum population to sustain a Primary school as per NBC is
 (A) 4000 (B) 5000
 (C) 2000 (D) 3000
- 041.** Solomon R. Guggenheim Museum (1956), New York, was designed by
 (A) Frank Lloyd Wright
 (B) Joseph Allen Stein
 (C) Le Corbusier
 (D) Auguste Perret
- 042.** Which of the following is NOT a member of a Steel Truss?
 (A) Gusset Plate
 (B) Wall Plate
 (C) Fish Plate
 (D) Anchor Bolts
- 043.** ECBC stands for
 (A) Electrical Conduit in Building Construction
 (B) Electrical Credit in Building Code
 (C) Energy Conservation Building Code
 (D) Energy Credit in Building Construction
- 044.** The Coefficient of sound Absorption for an open window is
 (A) 1.0 (B) 0.1
 (C) 0.01 (D) 0
- 045.** Daylight Factor (DF) is
 (A) Amount of Daylight penetrating inside the room
 (B) Ratio of inside and outside daylight levels
 (C) Total light effect created by direct daylight and reflected light from internal surfaces, inside the room.
 (D) None of above
- 046.** A power by which the government can acquire any private property for public welfare is
 (A) Power of Eminent Domain
 (B) Power of Police
 (C) Financial Power
 (D) Power of Judiciary
- 047.** If the original cost of a building is Rs. 25,00,000/- and its scrap value after 55 years is Rs.25,000/= , then its annual depreciation (in Rs.) using straight line method is
 (A) 25000 (B) 35000
 (C) 45000 (D) 55000
- 048.** As per NBC, where there is only one room The area of habitable room shall not be less than
 (A) 5.5 sqm (B) 15.0 sqm
 (C) 9.5 sqm (D) 12 sqm
- 049.** E.I.A stands for
 (A) East India Association
 (B) Environmental Impact Audit
 (C) Environmental Impact assessment
 (D) Ecological impact assessment

- 050.** Of the following types of landscape, which one produces 'heat-island'
- (A) Islands
 (B) Coastal areas
 (C) Urban areas
 (D) Mountain ranges
- 051.** Development that meets the needs of the present without compromising the ability of future generations to meet their own needs is
- (A) Health, education and welfare development
 (B) Sustainable development
 (C) Economic development
 (D) Infrastructure development
- 052.** The role of government agencies in the field of housing started changing since 1970s in the following way
- (A) From provider to facilitator
 (B) From plot supplier to dwelling unit supplier
 (C) From designer to builder
 (D) From facilitator to provider
- 053.** The pH scale runs from 0 -14, the nearest value of drinking water is
- (A) 0.0 (B) 3.5
 (C) 7.0 (D) 10.5
- 054.** Life-cycle costing includes
- (A) Only initial cost
 (B) Neither initial cost nor running cost
 (C) Only running cost
 (D) Both initial cost and running cost
- 055.** An activity in project network analysis means
- (A) Start or completion of task in time and resource
 (B) Actual performance of task that consumes time and resources
 (C) Total project time for completion of work
 (D) Least total time required for completing the work
- 056.** As per NBC the standard lighting required in a classroom is in the range of
- (A) 200-300-500 lux
 (B) 20-30-50 lux
 (C) 2000-3000-5000 lux
 (D) None of the above
- 057.** The architecture inspired by the local masses of a region is
- (A) Vernacular architecture
 (B) Green Architecture
 (C) Traditional architecture
 (D) Symbolic Architecture
- 058.** Cesspool is related to
- (A) Water treatment
 (B) Sewage treatment
 (C) Swimming pool
 (D) Leisure pool
- 059.** SI Unit of illumination is
- (A) Lumens (B) Candela
 (C) Lux (D) None of these

- 060.** Lucknow is situated in which climatic zone
(A) Hot Dry
(B) Composite
(C) Warm Humid
(D) Maritime
- 061.** Desert settlement is characterized by
(A) Sparse Planning
(B) Large open spaces
(C) Compact Planning
(D) Dense vegetation
- 062.** In acoustics, Reverberation time is $0.16 V/A$, 'A' is dependent on
(A) Absorption coefficient
(B) Surface area
(C) Both A and B
(D) Neither A nor B
- 063.** Which of the following is a water supply network system
(A) Grid iron
(B) Open ended
(C) Balanced input
(D) All of the above
- 064.** Flow through water in a tap will increase if
(A) Pipe length is increased
(B) Pipe length is decreased
(C) Head is decreased
(D) A and B both
- 065.** Which of the following modern architects had a major impact on post independence Indian Architecture
(A) Mies Van Der Rohe
(B) Frank Lloyd Wright
(C) Le – Corbusier
(D) Walter Gropius
- 066.** For earthquake resistant RCC structures the design consideration is
(A) Strong column weak beam
(B) Weak column strong beam
(C) Strong column strong beam
(D) Weak column weak beam
- 067.** Bahai temple in Delhi is a
(A) Tensile structure
(B) Shell Structure
(C) Pneumatic structure
(D) Space structure
- 068.** Which bond is not used in brick masonry
(A) English bond
(B) Flemish bond
(C) Dutch bond
(D) Rat bond
- 069.** Munsell is related to
(A) Colour scale
(B) Linear city
(C) BOD
(D) Light intensity

- 070.** Vent pipe in the sewer line of a house is used
(A) To protect the seal in the trap
(B) To ventilate the bathroom
(C) To ventilate the overhead tank
(D) None of the above
- 071.** Acidity of the soil is indicated by
(A) BOD (B) pH
(C) GL (D) CLO
- 072.** WBLOCK command in autoCAD creates
(A) Wooden block
(B) Drawing file
(C) ASCII file
(D) Data file
- 073.** UCS in AutoCAD
(A) Cannot be altered
(B) Can be rotated
(C) Can only be translated
(D) Can be rotated and translated
- 074.** Psychometric scaling deals with
(A) Subjective weighting
(B) Frequency of sound
(C) Thermal comfort
(D) Colour intensity
- 075.** Wedge shaped brick or stone blocks forming an arch are called
(A) Voussoirs (B) Cornices
(C) Springers (D) Abutments
- 076.** Number of common clay bricks required to make one cubic meter of brick masonry
(A) 350 (B) 420
(C) 500 (D) 550
- 077.** In two dimensional composition spatial depth can be created by the principle of
(A) Balance (B) Rhythm
(C) Perspective (D) Harmony
- 078.** The minimum diameter of longitudinal reinforcement in RCC column is
(A) 8 mm (B) 10 mm
(C) 12 mm (D) 16 mm
- 079.** Tie member in king post truss is
(A) Tension member
(B) Compression member
(C) Tension and compression both
(D) Neither tension nor compression
- 080.** Jharokha is an architectural element used in buildings as
(A) Gateway
(B) Balcony
(C) Column decoration
(D) Ceiling decoration
- 081.** Travel behavior characteristics of an urban area can be derived from
(A) Parking survey
(B) Socio-economic survey
(C) Demographic survey
(D) Origin and destination survey

- 082.** Central place theory was given by:
 (A) Clarence Stein
 (B) Von Thunen
 (C) Soria Y Mata
 (D) Christaller
- 083.** Dry rot is a defect of
 (A) Lime (B) Stone
 (C) Brick (D) Timber
- 084.** Number of edges in an octahedron
 (A) 8 (B) 10
 (C) 12 (D) 14
- 085.** Stack effect is
 (A) The process of supplying fresh air by electro mechanical means both vertically and horizontally
 (B) The tendency of hot air in a shaft to rise and create a draft of cool air intake
 (C) The air supply to a motor driven louvered opening in basement
 (D) The circulation of fresh air through windows from the lintel level
- 086.** Nosing is provided in
 (A) Water proofing
 (B) Masonry
 (C) Staircase
 (D) Painted finish
- 087.** Support system given to dilapidated building
 (A) Shoring (B) Centering
 (C) Scaffolding (D) Shuttering
- 088.** Pure colour is described by the term
 (A) Chroma (B) Tone
 (C) Value (D) Hue
- 089.** Sciography refers to
 (A) Study of screen printing
 (B) Study of shadow projections
 (C) Study of graphic design
 (D) Study of textile design
- 090.** The valve which allows the flow of water in one direction only
 (A) Reflux valve
 (B) Sluice valve
 (C) Relief valve
 (D) Score valve
- 091.** Which pattern of layout is most commonly seen in Mughal gardens
 (A) Chashme Shahi
 (B) Jor bagh
 (C) Char bagh
 (D) Firdausi
- 092.** Gopuram refers to
 (A) Temple (B) Gateway
 (C) Village (D) Brick dome
- 093.** Complimentary colour of violet is
 (A) Red (B) Green
 (C) Black (D) Yellow

- 094.** Workability of concrete mix with low water cement ratio is determined by
(A) Slump test
(B) Tensile strength test
(C) Flexural strength test
(D) Compaction factor test
- 095.** Most efficient arch for transferring load
(A) Flat
(B) Semi circular
(C) Pointed
(D) Catenary
- 096.** Le Corbusier put forth his theory of proportions in a book titled
(A) The dimensions
(B) The modular
(C) The golden section
(D) Towards the new architecture
- 097.** Term comfort zone is used in relation to
(A) Bio climatic chart
(B) Sun path diagram
(C) Wind rose
(D) Sundial
- 098.** Timber member Rail is associated with
(A) Timber floor
(B) Truss
(C) Door
(D) Staircase
- 099.** Size of queen closer is
(A) 100×100
(B) 100×50
(C) 200×100
(D) 200×50
- 100.** The parameter that does not appear in psychrometric chart
(A) Wind speed
(B) Dry bulb temperature
(C) Wet bulb temperature
(D) Relative humidity

SPACE FOR ROUGH WORK / कच्चे काम के लिये जगह